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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Alan G. Maloney

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EXAMINER

NEGIN, RUSSELL SCOTT

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/779,569	<b>Applicant(s)</b> MALONEY ET AL.	
	<b>Examiner</b> RUSSELL S. NEGIN	<b>Art Unit</b> 1631	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 26 August 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 128-130, 132-139 and 141-145 is/are pending in the application.
- 4a) Of the above claim(s) 134-136 and 143-145 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 128-130, 132, 133, 137-139, 141 and 142 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Comments*

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Applicants' amendments and request for reconsideration in the communication filed on 26 August 2008 are acknowledged and the amendments are ENTERED.

Applicant's arguments, see pages 7-8 of the Remarks, filed 26 August 2008, with respect to the rejection(s) of claim(s) 128-129, 132-133, 137-138, and 141-142 under 35 U.S.C. 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of DiGregorio et al. [Obesity Surgery, volume 11, 2001, pages 318-326] in view of Siffert et al. [J Am Soc Nephrol, volume 10, 1999, pages 1921-1930].

Claims 134-136 and 143-145 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 15 September 2006.

Claims 128-130, 132-139, and 141-145 are pending, and claims 128-130, 132-133, 137-139, and 141-142 are examined in the instant Office action.

### *Withdrawn Rejections*

The rejection of claims 137-142 under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter is withdrawn in view of amendments to the instant claims filed on 26 August 2008.

The rejection of claims 131 and 140 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is withdrawn in view of amendments to the instant claims filed on 26 August 2008.

The rejection of claims 128-129, 132-133, 137-138, and 141-142 under 35 U.S.C. 102(b) as being anticipated by Rappaport (US PG PUB 2002/0007285 A1; published 17 January 2003; filed 3 January 2001) is withdrawn in view of arguments filed on pages 7-8 of the Remarks of 26 August 2008.

The rejection of claims 130 and 139 under 35 U.S.C. 103(a) as being unpatentable over Rappaport as applied above, in further view of Davies et al. (US PG PUB 2003/0046114 filed 23 October 2001) is withdrawn in view of arguments filed on pages 7-8 of the Remarks of 26 August 2008.

The rejection of claims 131 and 140 under 35 U.S.C. 103(a) as being unpatentable over Rappaport as applied above, in further view of McCray et al. (Proc AMIA Symp., 2002, pages 504-508; on IDS) is withdrawn in view of amendments to the instant claims filed on 26 August 2008.

### ***Claim Rejections - 35 USC § 101***

The following rejection is newly applied:

35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 128-130 and 132-133 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The method claims of the instant application (instant claims 128-130 and 132-133) recite a series of steps without a physical transformation. Further, the claims fail to recite a tie to another statutory class of invention. It is noted that while the result of the calculation is identified on a user interface, this final step is an insignificant post-solution activity and does not constitute a significant tie to another category of invention.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following rejection is newly applied:

35 U.S.C. 103 Rejection #1:

Claims 128-130, 132-133, 137-139, and 141-142 are rejected under 35 U.S.C. 103(a) as being unpatentable over DiGregorio et al. [Obesity Surgery, volume 11, 2001, pages 318-326] in view of Siffert et al. [Journal of the American Society of Nephrology, volume 10, 1999, pages 1921-1930] in view of Rappaport [US PGPUB 2002/07285 A1, published 17 January 2002; filed 3 January 2001].

Independent claim 128 is drawn to a method for identifying medical literature performed by a computer system comprising:

- a) receiving a genetic profile of a patient;
- b) translating the genetic profile into one or more identifiers of a medical classification system for a medical literature database;
- c) searching the medical literature database for medical literature articles relating to the one or more identifiers using an evidence based medicine filter; and
- d) identifying the articles on a user interface.

Claims 129-130 are further limiting wherein the genetic profiles include a nucleic acid sequence and an SNP.

Claims 132-133 are further limiting wherein the medical literature articles are clinical articles or validated treatments.

Claims 137-139 and 141-142 are drawn to the same subject matter as claims 128-130 and 132-133, respectively, with the exception that the these claims comprise a computer readable medium and not a method.

The article of DiGregorio et al. studies how to improve systematic searches for enhanced decision-making and clinical outcomes; specifically, DiGregorio et al. studies quality of life after obesity surgery using an evidence based medicine literature review.

DiGregorio et al. translates the result of a patient positive for obesity into one or more identifiers for a medical literature database. Specifically, the Cochrane library and the respective identifiers translated from an "obesity positive" population (i.e. obesity keywords) are listed in Table 2 on page 323 of DiGregorio et al. The results of searching the Cochrane Library (i.e. a specific evidence based database on medicine) are displayed as number of "hits" in the right column of Table 2 of DiGregorio et al.

The Cochrane library is an evidence based literature database. As discussed in the final full paragraph of the second column of page 323 of DiGregorio et al., the only literature in the Cochrane database are evidence based. Consequently, when compared with a more generic database (i.e. MEDLINE), the Cochrane Library results in a reduced, but more focused (i.e. filtered) number of hits. The articles are identified on a user interface such as the table depicted in page 323 of DiGregorio et al. Consequently, as the medical literature of the Cochrane library is searchable and classified (i.e. in Table 2) in response to the number of hits obtained, the Cochrane library is interpreted to be a medical literature classification database.

While DiGregorio et al. depicts searches related to clinical and multiple possible validated surgical treatment techniques (see Table 2 of Gregorio et al.) for patients who exhibit the symptomatic traits of obesity, DiGregorio et al. does not obtain actual genetic profiles from such patients.

The article of Siffert et al. teaches worldwide ethnic distribution of the G protein beta-3 subunit 825T allele and its association with obesity in Caucasian, Chinese, and Black African individuals.

Specifically, Table 1 on page 1923 of Siffert et al. correlates genotypes as a result of the C825T SNP (i.e. genetic profiles) to categories of body weight (i.e. underweight, normal weight, overweight, and obese). These categories or characteristics act as translations of genotypes of individuals into keywords, such as "obese" which are utilized in the study of DiGregorio et al. to search the Cochrane literature database.

The prior art of DiGregorio et al. and Johnson does not teach the computerized limitations of the instant claims (i.e. computer system, computer readable media, computer code).

The publication of Rappaport teaches a method, apparatus, and system for providing targeted information in relation to laboratory and other medical services.

Specifically Figure 2 of Rappaport illustrates the automated (i.e. computerized) aspects of method, apparatus, and system for providing targeted information.

It would have been obvious to someone of ordinary skill in the art at the time of the instant invention to modify the evidence based obesity data search of DiGregorio et



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al. by use of the genetic profiles classification system of Siffert et al. wherein the motivation would have been that while DiGregorio et al. has the advantage of proposing treatments that would most probably result in the best quality of life after the treatment [see title and abstract of DiGregorio], the genetic profiles of Siffert et al. give a more quantitative extent of the genetic component to the observed obesity [see, for example Table 1 of Siffert et al.] in order to better relate correlations of genotype frequencies in specific races of the population with obesity indicators or searchable keywords. It would have been further obvious to someone of ordinary skill in the art at the time of the instant invention to modify the obesity data search of DiGregorio et al. and the genetic profiles of Johnson by use of the automated database system of Rappaport wherein the motivation would have been that it would have been obvious to automate the database searching algorithm of DiGregorio et al. based on the obesity profiles measured in Johnson to result in a more expedient and accurate process or product (see, for example, Figure 2 of Rappaport).

Response to Arguments:

Applicant's arguments with respect the instantly rejected claims have been considered but are moot in view of the new ground(s) of rejection. Although the arguments that Rappaport does not teach an evidence based filter are persuasive, the reference is relied upon in the rejection above only for its teaching of computational limitations (i.e. computer systems and computer readable media).

***Conclusion***

No claim is allowed.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the central PTO Fax Center. The faxing of such pages must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Negin, Ph.D., whose telephone number is (571) 272-1083. The examiner can normally be reached on Monday-Friday from 7am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Marjorie Moran, Supervisory Patent Examiner, can be reached at (571) 272-0720.

Information regarding the status of the application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information on the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/RSN/  
Russell S. Negin, Ph.D.  
12 September 2008

/Marjorie Moran/  
Supervisory Patent Examiner, Art Unit 1631